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CLOSURE REPORT

FOR THE

ALL-BRITE LAGOON POST CLOSURE PROJECT KANSAS CITY, MISSOURI

Prepared for:

Broski Brothers, Inc.

SM Drochi Se Secretary 1/28/97

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Prepared by:

George Butler Associates, Inc.

November 22, 1996

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HAZARDOUS WASTE PROGRAM MISSOURI DEPARTMENT OF NATURAL RESOURCES



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RCRA RECORDS CENTER

for B Traft 11/25/96

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EXECUTIVE SUMMARY

The following Certification of Closure Report for the remediation of a contamination plume immediately west of the former All-Brite Lagoon has been prepared in accordance with the requirements of 40 CFR, Part 265.115, "Certification of Closure". George Butler Associates, Inc. (GBA) was retained by Broski Brothers, Inc. (Broski) to provide the services of an independent, registered professional engineer. Broski retained the services of a waste management contractor to perform soil remediation and handling, an independent analytical laboratory to perform sampling analysis, and the services of a drilling contractor to close some of the existing groundwater monitoring wells and to install a new monitoring well in the treated soil after placement. Broski also retained Taylor Environmental, Inc. to perform environmental consulting services. GBA and Taylor Environmental performed full time observation of remediation activities and performed field sampling and testing. GBA reviewed waste management contractor and laboratory submittals. Appendix 1 monitoring well installation logs; Appendix 2 monitoring well closure certification; Appendix 3 analytical laboratory testing results; and Appendix 4 contains representative photographs of different phases of the remediation effort.

This report provides documentation and certification of post closure remediation activities in accordance with the detailed work plan, as amended. Additional documentation including required contractor submittals, correspondence, test data, and photographs is available in GBA project files.

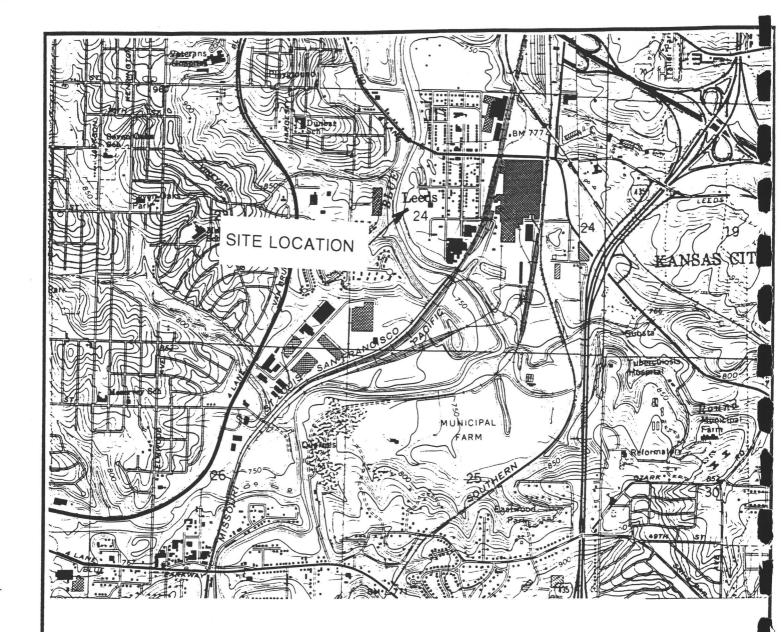
INTRODUCTION

The All-Brite Lagoon, a lagoon constructed in the 1970s for the treatment of pickle liquor and other wastes resulting from electroplating operations, was closed in the mid-1980s by treating the sludge and lagoon bottom with hydrated lime, flattening the berm over the treated area, and seeding. Groundwater monitoring was initiated in the early 1980s and expanded at approxmately the same time as lagoon closure. Figure 1 shows the location of the project site.

In 1995, George Butler Associates (GBA) performed sampling of the soil and treated waste at the former location of the lagoon and sent the samples to an independent analytical laboratory for analysis. The laboratory analytical testing results indicated heavy metal concentrations below action levels and pH values in an acceptable range.

The results of the groundwater monitoring over an extended period of time revealed a plume of acidic groundwater west of the former lagoon location; specifically, Monitoring Well 210 A has consistently shown pH readings between 4.0 and 5.0. In December 1995 a work plan was written to perform remediation activities in the plume area. The plan was subsequently modified on March 1, 1996. The plan called for treatment of the soil of the plume area with hydrated lime and discharge of groundwater removed during remediation to the Kansas City municipal sanitary sewer.

Remediation acitivites commenced on Ausust 6, 1996 and, with the exception of cleaup and seeding, ceased on August 15, 1996. Remediation and subsequent monitoring activities are described in this report.



SOURCE: USGS KANSAS CITY QUAD - 1964; REV. 1970 & 1975

USGS INDEPENDENCE QUAD - 1964; REV. 1970 & 1975



NORTH

SCALE 1:24,000



GEORGE BUTLER ASSOCIATES, INC. Engineers/Architects/Landscape Architects/Planner

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LOCATION MAP

BROSKI BROTHERS

KANSAS CITY, MISSOURI

DATE:

11/20/96

FIGURE:

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SITE REMEDIATION ACTIVITIES

Site remediation activities commenced on August 6, 1996, following a procedure in substantial agreement with Alternative 1, part III.A. of the December 29, 1995 Work Plan. After discussing the Site Health and Safety Plan, B&V Construction began stripping topsoil from the plume area and stockpiling it in the northwest corner of the site. As per part III.C of the December 29, 1995 Work Plan and Modification No. 1 of the June 6, 1996 letter from MDNR to Mr. Michael J. Broski, GeoSystems began closing monitoring wells which were to be taken out of service. Appendix 1 contains well closure records submitted to the Missouri Department of Natural Resources (MDNR) Division of Geology and Land Survey. The following monitoring wells were **not** closed:

- OWAB-201 A
- OWAB-201 B
- OWAB-201C
- OWAB-209 A
- P-212

Monitoring well OWAB-210 A, in the contaminated groundwater plume, was plugged and, following contaminated soil treatment, reinstalled.

Contaminated Soil Identification.

Modification No. 2 of the June 6, 1996 letter from MDNR required that the horizontal and vertical extent of the plume of contamination be determined. Initially, two backhoe test pits were excavated perpendicular to the plume to identify contaminated soil. As per part III.A. of the December 29, 1995 Work Plan, the sides of the pits were visually examined and tested with a hand-held pH meter. The following soil horizons were identified:

	Table 1 Test Pit Soil Horizons									
Horizon Number	A CONTRACTOR OF THE CONTRACTOR									
1	0 - 4'	Medium dark gray silty clay								
2	4 - 8'	As above; with reddish brown stains								
3	> 8,	Medium gray silty clay; with strong sulphur odor & white staining								

Horizon No. 1 was interpreted to be uncontaminated because of its natural appearance and its neutral pH. The pH of Horizon No. 2 was neutral; this horizon is believed to have

been impacted by acidic materials, but stabilized by oxidation, resulting in mineral staining. Horizon No. 3 was found to have a pH reading of 3.1. This horizon is believed to have been impacted by acidic materials, but a reducing environment has hindered stabilization.

Soil Removal and Treatment

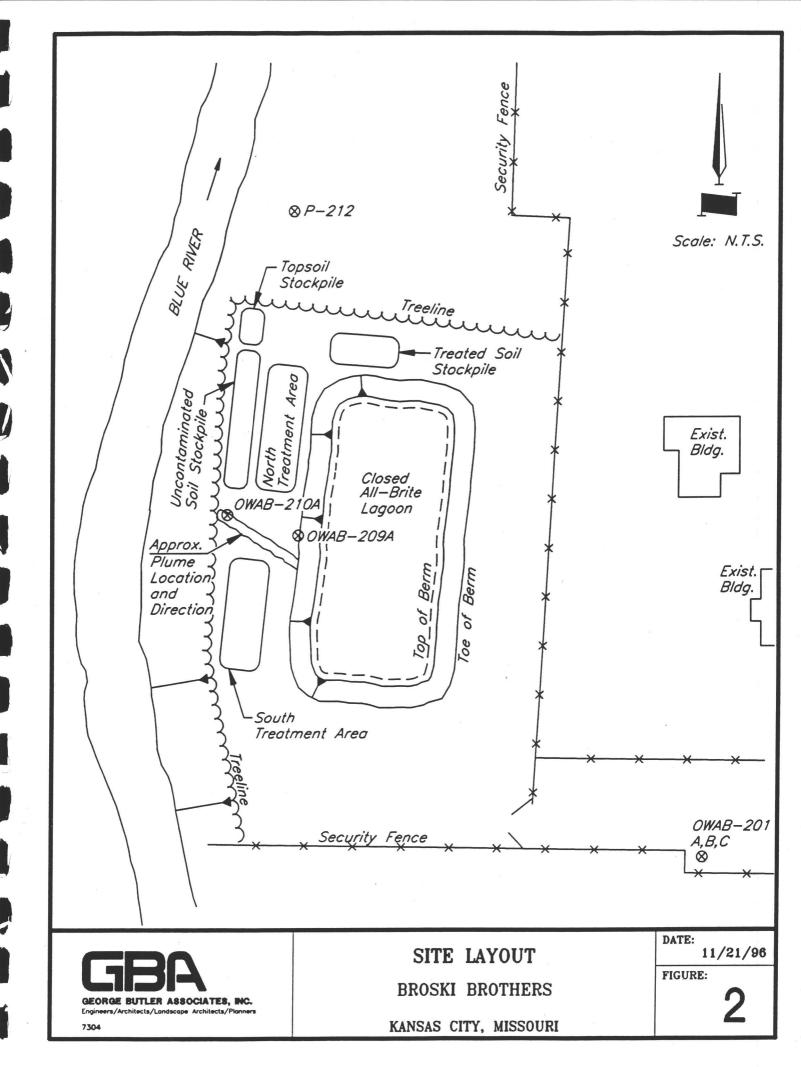
After the horizons discussed above had been identified, the topsoil (first six inches of Horizon No. 1) and Horizon No. 1 were removed from the plume area with a trackhoe and dump truck and stockpiled separately. The topsoil was placed in the northwest corner of the lagoon site (see Figure 2) and the remainder of Horizon No. 1 was placed along the northwest edge of the site.

Horizon Nos. 2 and 3 were treated and stockpiled separately from the topsoil and Horizon No. 1 stockpiles. Soil from the lower portion of Horizon No. 1 was spread into a pad north of the plume area. The dimensions of the pad were approximately 30' x 100' x 6-8". After the pad was constructed, the soil was tested and found to have a pH slightly greater than seven.

As the uncontaminated soil from Horizon No. 1 was being excavated, test pits were excavated beyond the soil currently being removed. In this manner, "hot zones", or zones of maximum contamination were identified. The soil in these hot zones were light grayish white and readings taken with a hand-held pH meter measured approximately five pH units. Excavation focused on removing as much soil from the hot zones as possible. The test pit excavation extended to a maximum depth of approximately 18 feet, at which point a high-plasticity clay was encountered. Readings of pH from a hand-held meter indicated a pH of approximately 5.0 in the high-plasticity clay. This clay is a confining layer separating the upper aquifer monitored by the "A-series" monitoring wells from the "B-series" wells. Past groundwater monitoring had indicated abnormally low pH readings in the shallowest aquifer (monitored by the "A"-series wells) only; no abnormally low readings had historically appeared in the middle aquifer (monitored by the "B"-series wells). No more than one to two feet of the high plasticity clay were excavated because it was necessary to maintain the confining layer between the two aquifers.

It was necessary to leave some contaminated soil between the excavation and the closed lagoon to the east to maintain the structural integrity of the lagoon. Also, the contaminated soil in the woods to the west was not removed because this area constitutes a wetlands, for which excavation is prohibited without a 404 permit from the Army Corps of Engineers.

The December 29, 1995 Work Plan contained three alternative remediation procedures; the first two involved insitu treatment and the third involved excavation and hauling to a permitted solid waste disposal area. Following is an excerpt from the December 29, 1995 Work Plan that describes Alternative 1 -Treat and Stabilize Insitu with Ca(OH)₂:



The plume area will be excavated using a backhoe with a pH meter being used to establish which soil is below a pH of 5.5, so that it may be treated and stabilized insitu with calcium hydroxide. Visual observation of the color of the soil will also be used to locate the low pH plume. The process will involve the application of a calcium hydroxide slurry to the low pH plume material followed by blending and mixing of the soil slurry with earthwork equipment. The process will be repeated in 6- to 8- inch lifts until the plume is treated and stabilized. The soil will be placed back in the excavated plume area following stabilization and verification sampling and testing of the walls and floor of the excavated plume area. The insitu treated soil which is being stockpiled during verification sampling and testing will be covered with a plastic material until it is placed back into excavated area. The insitu treated soil will also be sampled and tested prior to backfilling. Groundwater will be pumped to a tanker truck and pH monitored during excavation activities until the groundwater reaches background levels. The groundwater from the plume area and around monitoring well MW-210 will be pumped with an automatic sump pump to the tanker. The upgradient and downgradient monitoring wells along with monitoring well MW-210 located at the plume will be monitored for pH levels to determine when the groundwater has reached background levels. Groundwater will be discharged to the sanitary sewer with the permission of Kansas City, Missouri.

The work plan was revised with an attachment to a letter, dated March 1, 1996, to Mr. Doug Allen, MDNR Hazardous Waste Program. The following table revising the insitu treatment procedures is exerpted from the attachment to the letter:

	Table 2 Equipment and Construction Sequencing										
Sequence Steps	Equipment	Activity									
A.	Track Loader	Remove top soil from plume area									
B.	pH meter	Sample/test soil to determine soil below pH 5.5									
C.	2" gas-powered trash pump	Hydrate calcium hydroxide powder with groundwater from plume area									
D.	Track-mounted rototiller	Blend and mix calcium hydroxide into plume area									
E.	Track loader	Remove treated and stabilized soil in 6- to 8-inch lift									
F.	Dump Truck	Haul treated soil to secure area within site									
G.	Uniloader	Place treated soil on plastic (Repeat steps B-F)									
H.	Sampling for metals, analytical laboratory	Verification sampling									
I.	Loader and dump truck	Haul treated soil to plume area and place back in excavation									

When the work plan was revised, it was believed that the depth of soil contamination was relatively shallow, however, the backhoe pit exploration revealed a depth of contamination that extended downward through the entire depth of the uppermost aquifer and into the underlying aquitard. Because the depth of the contaminated soil was deeper than anticipated, safety concerns arose and a variation of Alternative 1 from the December 29, 1995 Work Plan appeared to be the most appropriate. Contaminated soil was excavated from the plume area with a trackhoe and placed in a dump truck, which deposited the soil on the pad. A front end loader or a uniloader spread the soil into six- to eight-inch lifts.

After field pH readings were obtained for a lift, hydrated lime powder was added to raise the pH of the soil to a level between 8.5 and 9.5, which is the range suggested by Modification Nos. 4 and 5 of the June 6, 1996 letter from MDNR to Mr. Michael J. Broski. The amount of hydrated lime added was dependent on the pH readings initially obtained. A rototiller pulled by a tractor was then used to blend the soil and hydrated lime. Following the blending, pH readings were again obtained. If the pH of blended soil was at an acceptable level, the blended soil was stockpiled. If the pH was too low, more hydrated lime was added and the soil was blended and tested again. This process continued until the pH reached an acceptable level, after which time the soil was stockpiled east of the topsoil stockpile. Initially, the treated stockpile was covered with plastic at night, but this practice was discontinued when it became apparent that the treated soil could not possibly be washed offsite by stormwater; the stockpile of uncontaminated soil blocked any migration pathways to the Blue River and any suspended sediment would eventually was back into the excavation from which it came.

To maximize the efficiency of equipment utilization, a second treatment area was constructed south of the plume area. The treatment process was similar, in that a 6 - 8" layer of soil was deposited, the soil was field-tested for pH, hydrated lime was added, the hydrated lime and soil were blended with a rototiller, and the soil was field tested again for pH. If the pH after blending was at an acceptable level, another lift of contaminated soil was placed on top of the previous lift and the process was repeated. If the pH was not at an acceptable level, more hydrated lime was added and blended until the pH attained an acceptable level. The soil from the south treatment area was not removed and placed in a stockpile because the topographic slope was greater than that of the north treatment area and it was advantageous to maintain a level working area. The treated soil of the south treatment area was covered at night with plastic sheets.

Alternative 1 of the December 29, 1995 Work Plan states that the groundwater from the plume area would be pumped to a tanker and discharged to the Kansas City, Missouri municipal sewer. Modification No. 3 of the June 6, 1996 letter from MDNR stated that permits or approval must be obtained from the Kansas City Water and Pollution Control Department (recently renamed Water Services Department) and that permits or approvals must be sent to the MDNR Hazardous Waste Program prior to pumping. These actions

were found to be unnecessary since groundwater infiltration into the excavation proved to be very slow. Although the excavation remained open for eight days, only a few inches of water had accumulated in the bottom of the pit. No pumping of groundwater from the pit took place.

At various times in the remediation effort, the site was visited by Mr. Doug Allen, MDNR Hazardous Waste Program, and Ms. Denise Beck, MDNR Kansas City Regional Office. Field adjustments to the procedures discussed in the December 29, 1995 Work Plan and subsequent letters were discussed with Mr. Allen by telephone or in person prior to execution.

Remediation Sampling and Testing

As per part III.B. of the December 29, 1995 Work Plan, GBA collected soil samples from the walls and the bottom of the excavation area and analyzed by an independent contract laboratory for:

- Total Metals
- TCLP
- Sulfate
- pH

When the final lifts on the south and north treatment areas had been placed, a grid with 10 x 10' spacing was established on each treatment area and discreet soil samples were taken at each node, as per Modification No. 4 of the June 6, 1996 letter from MDNR to Mr. Michael J. Broski. These discreet soil samples and composite soil samples from the the south treatment area, the north treatment area, the treated soil stockpile, the uncontaminated soil (Horizon No. 1), and the topsoil were sent to an independent laboratory for analytical testing. The discreet soil samples from the south and north treatment areas were analyzed for pH. The composite soil samples were analyzed for the parameters listed above.

At the time of sampling, a small amount of water had recharged into the excavation. This water was also sampled and sent to the independent laboratory for analysis. The parameters analyzed include:

- Total Metals
- Sulfate
- pH

Results from the chemical analyses are provided in Appendix 2.

Treated Soil Placement

After analytical results were received showing successful treatment of the soil, agricultural lime was spread on the sides and bottom of the excavation and the soil the treated soil was returned to the excavation with a uniloader, front end loader, and trackhoe. Compaction of the returned soil was achieved by driving over the soil with the front end loader and tamping with the trackhoe bucket. Contrary to expectations, no soil expansion, or "fluffing" occured. The volume of the soil replaced was approximately equal to the volume removed.

Vegetative Cover

Modification No. 10 of the June 6, 1996 letter from MDNR required that after backfilling and grading to original contours, the final disturbed area be seeded. After Monitoring Well 210 A was reinstalled, grass seed was sown over the area in which the south treatment area, excavation, north treatment area, uncontaminated soil stockpile, topsoil stockpile, and treated soil stockpile were located. Straw mulch was then applied.

Groundwater Sampling and Testing

After the treated soil was returned to the excavation, Monitoring Well 210 A was reinstalled. On September 27, 1996 the reinstalled well was sampled for quarterly monitoring. During purging of the well, much lower than expected pH readings were obtained. Eventually, the pH stabilized at 3.7 and groundwater samples were taken. The sampling results, in Appendix 2, are comparable to the results of earlier rounds of sampling of the original Monitoring Well 210 A. The bottom of the reinstalled well was installed into the confining clay separating the shallow from the middle aquifer. Although field sampling of the clay layer showed it to be acidic, it was left intact to maintain the separation of the two aquifers. It is believed that water infiltrating the well from the confining clay is responsible for the low pH readings.

On October 2, 1996, another monitoring well was installed at a depth of approximately 16 feet. The reinstalled Monitoring Well 210 A is designated R 210 A1 and the subsequent monitoring well is designated R 210 A2. The well records submitted to MDNR - Division of Geology and Land Survey for the two wells are found in Appendix 1. During development of monitoring well R 210 A2, both wells were bailed and the indicator parameters temperature and pH were monitored. Table 3 summarizes well development and monitoring activity prior to sampling of monitoring well R 210 A2.

On October 14, 1996, monitoring well R 210 A2 was sampled for the following metals:

- Cadmium, total
- Chromium, total
- Iron, total

Table 3 Monitoring Well Development and Monitoring Activity								
Date/Parameter	R 210 A1	R 210 A2						
October 4, 1996	-							
Initial Water Level	Instrument Failure	Instrument Failure						
Initial Appearance	Lightly turbid brown	Clear						
Initial pH	3.2	6.7						
Initial Temperature	Not measured	Not measured						
Final Water Level	Dry	Dry						
Final Appearance	Very turbid brown	Turbid Brown						
Final pH	3.4	6.8						
Final Temperature	Not measured	Not Measured						
Water Volume Evacuated	± 7.0 gal.	± 4.5 gal.						
October 7, 1996								
Initial Water Level	15.33'	9.50', TOC						
Initial Appearance	Slightly turbid; light brown	Clear						
Initial pH	3.1	6.7						
Initial Temperature	15° C	19° C						
Final Water Level	18.25', TOC	17.15', TOC						
Final Appearance	Slightly turbid; light brown	Slightly turbid; light brown						
Final pH	3.5	6.8						
Final Temperature	14° C	16° C						
Water Volume Evacuated	± 3.0 gal.	± 4.5 gal.						
October 9, 1996								
Initial Water Level	15.38', TOC	10.97', TOC						
Initial Appearance	Clear	Clear						
Initial pH	3.1	6.7						
Initial Temperature	15.5° C	18° C						
Final Water Level	18.34' TOC	Dry						
Final Appearance	Slightly turbid; light brown	Slightly turbid; ight brown						
Final pH	3.3	6.7						
Final Temperature	14° C	16° C						
Water Volume Evacuated	3.0 gal.	± 4.0 gal.						
Total Volume Evacuated	± 13.0 gal.	13.0 gal.						

- Lead, total
- Manganese, total
- Zinc, total

The results are found in Appendix 2. Appendix 2 also includes the sampling results of monitoring well R 210 A1 and a summary of the historical results from the closed Monitoring Well 210 A. Comparison of the results of wells R 210 A1 and A2 reveals that the results from R 210 A1 are consistent with the historic results for Monitoring Well 210 A; whereas, the results from R 210 A2 are below the historical range of Monitoring Well 210 A for all parameters except lead. The analytical results for lead are inconclusive because the lab experienced interference in its analysis of this parameter and could say with certainty only that the value was less than 0.01 mg/l. This value is lower than the historical range of Monitoring Well 210 A, except for the 6/27/96 sampling event. The result of the 6/27/96 sampling event for lead was 0.007 mg/l, which is between 0.01 mg/l and the 0.005 mg/l detection limit. Therefore, the result of the analysis for lead from R 210 A2 is inconclusive; whereas the results from all other parameters are below or at the lower end of the historic range for Monitoring Well 210 A. The results suggest that, because the bottom of R 210 A1 was completed in the confining clay layer below the uppermost aquifer, it is influenced by water from the confining clay; whereas, the sampling results from R 210 A2 are much lower than R 210 A1 or the historic results of Monitoring Well 210 A because it was completed entirely in treated material and metals present in the soil remain unmobilized.

Appendix 2 also contains pH and specific conductance measurements taken during sampling of R 210 A1 and A2. Comparison of these readings reveals that the pH readings for R 210 A1 are within the historic range for Monitoring Well 210 A; whereas, the pH readings for R 210 A2 are above the historic range of that well. The specific conductance readings for R 210 A1 are within the historic range of Monitoring Well 210 A. The specific conductance readings for R 210 A2 are also within the historic range of Monitoring Well 210 A, but at the lower end. The pH readings suggest that, because the bottom of R 210 A1 was completed in the confining clay layer below the uppermost aquifer, it is influenced by water from the confining clay; whereas, the pH readings from R 210 A2 are much higher than R 210 A1 or the historic results of Monitoring Well 210 A because it was completed entirely in treated material, through which migrating groundwater is not acidified. The specific conductance readings are less conclusive than the pH readings, since the readings from both R 210 A1 and A2 are within the historic range of Monitoring Well 210 A. However, the fact that the readings from R 210 A2 are at the lower end of the historic range of Monitoring Well 210 A may reflect the lower mobilization of metals in the water that has migrated through treated material.

Groundwater Monitoring

Modification No. 11 of the June 6, 1996 letter from MDNR states that the groundwater in the plume area shall be monitored quarterly for a period of one year after closure is

complete. Both R 210 A1 and A2 will be monitored on a quarterly basis for one year. It is anticipated that R 210 A1 will exhibit progressively higher pH readings and lower metals readings as chemical reactions between the hydrated lime and surrounding soil progress. R 210 A2 is expected to continue to exhibit neutral pH and low metals readings. As indicated above, the results of the first analytical sampling event are found in Appendix 2.

Although Modification No. 9 of the June 6, 1996 letter from MDNR refers to Monitoring Well 201 A as the upgradient well, a comparison of historic analytical monitoring results suggests that Monitoring Well 209 A is a more representative upgradient well. The average background levels for the last three years, excluding the September 1996 sampling event, are as follows:

•	Sulfate -	208
•	Cadmium -	0.010
•	Chromium -	0.026
•	Lead -	0.079
• 1	Nickel -	0.044
•	Zinc -	0.236
•	Manganese -	0.180
•	Iron -	8.71
•	pH -	6.81

It is strongly recommended that Monitoring Well 209 A be used to establish background or cleanup levels.

Deed Recording and Survey Plat

A survey plat of the treated plume area has been prepared by a Registered Land Surveyor and filed with the Jackson County, Missouri Recorder of Deeds, as required by 40 CFR 265.116. Copies of the filing are found in Appendix 3.

Certification Statement

This closure report provides documentation and certification of closure in accordance with the Closure Plan, as amended and as dictated by field conditions as discussed herein.

APPENDIX 1



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MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGY AND

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DIVISION OF GEOLOGY AND

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MISSOURI DEPARTMENT OF NATURAL RESOURCES

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MISSOURI DEPARTMENT OF
NATURAL RESOURCES
DIVISION OF GEOLOGY AND
LAND SURVEY

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MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGY AND LAND SURVEY

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MISSOURI DEPARTMENT OF NATURAL RESOURCES

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DISTRIBUTION: WHITE/CONTRACTOR CANARY/DIVISION PINK/OWNER

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MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGY AND LAND SURVEY

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MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGY AND

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MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGY AND LAND SURVEY

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MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGY AND LAND SURVEY

MONITORING WELL CERTIFICATION RECORD

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SIGNATURE PRIMARY CONTRACTOR/PERMIT

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DATE



MO 780-1415 (7-95)

MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGY AND LAND SURVEY

MONITORING WELL **CERTIFICATION RECORD**

OFFICE USE ONLY	DATE RECEIVED
146304	
C R NO	CHECK NO
STATE WELL NUMBER	TRANSMITTAL NO
CHECKED BY	ROUTE
APPROVED BY	ENTERED

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APPENDIX 2

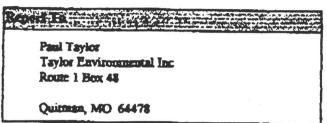
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ANALYTICAL REPORT

October 10, 1996

Page I of 1



Work Order: 3609.0047
Sample Na: 3600077
Date Cellected: 09/27/96 12:00 AM
Date Received: 09/30/96 01:25 PM
Collector: Paul Taylor
Collector Phone: 816-725-4734
Matrix: water

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092796-1	

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Determination of metals.			9			
Cadmium, total	< 0.01	mg/L	10.0	EPA 200,7	TAR	10/01/96
Chromium, total	< 0.05	mg/L	0.05	EPA 200.7	TAR	10/01/96
Iron, total	3.52	mg/L	0.03	EPA 200.7	TAR	10/02/96
Lead, total	0.007	mg/L	0.005	EPA 239.2	TAR	10/02/96
Manganese, total	0.69	mg/L	0.01	EPA 200.7	TAR	10/02/96
Zinc, total	0.12	mg/L	0.03	EPA 200.7	TAR	09/30/96

Keystone Laboratories, Inc.

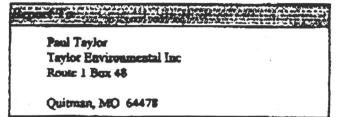
Paul Boebe, Laboratory Manager



ANALYTICAL REPORT

October 10, 1996

Page 1 of 1



Work Order: 3609.0047
Sample No: 3600080
Date Collected: 09/27/96 12:00 AM
Date Received: 09/30/96 01:25 PM
Collector: Paul Taylor
Collector Phone: 816-725-4734
Matrix: water

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Determination of metals.						
Cadmium, total	< 0.01	mg/L	0.01	EPA 200.7	TAR	10/01/96
Chromiana, total	< 0.05	mg/L	0.05	EPA 200.7	TAR	10/01/96
Iron, total	2.1	mg/L	0.03	EPA 200.7	TAR	10/02/96
Lead, total	0.007	mg/L	0.005	EPA 239.2	TAR	10/02/96
Manganese, total	17.5	mg/L	0.01	EPA 200.7	TAR	10/02/96
Zinc, total	0.03	mg/L	0.03	EPA 200,7	TAR	09/30/96

Keystone Laboratories, Inc.

Faul G. Bellu

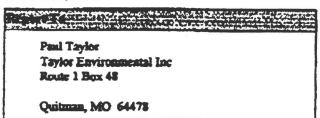
Paul Beebe, Laboratory Manager



ANALYTICAL REPORT

October 10, 1996

Page 1 of 1



Work Order: 3609.0047
Sample No: 3600081
Date Collected: 09/27/96 12:00 AM
Date Received: 09/30/96 01:25 PM
Collector: Paul Taylor
Collector Phone: 816-725-4734
Matrix: water

092796-3	
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Source			

					Airaxis!	
Determination of metals.						
Cadmium, total	< 0.01	mg/L	0.01	EPA 200.7	TAR	10/01/96
Chromium, total	< 0.05	mel	0.05	EPA 200.7	TAR	10/01/96
Iron, total	2.39	mel	0.03	EPA 200.7	TAR	10/02/96
Lead, total	0.012	mg/L	0.005	EPA 239.2	TAR	10/02/96
Manganese, total	0.07	mg/L	0.01	EPA 200.7	TAR	10/02/96
Zinc, total	0.18	me/L	0.03	EPA 200.7	TAR	09/30/96

Keystone Laboratories, Inc.
Paul & Bellu

Paul Beebe, Laboratory Manager

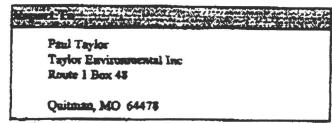
< = less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm.</p>
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ANALYTICAL REPORT

October 10, 1996

Page 1 of 1



Work Order: 3609.0047
Sample No: 3600082
Date Collected: 09/27/96 12:00 AM
Date Received: 09/30/96 01:25 PM
Collector: Paul Taylor
Cellector Phone: 816-725-4734
Matrix: water

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Betermination of metals.						
Cadmium, total	< 0.01	mg/L	0.01	EPA 200.7	TAR	10/01/96
Chrysniam, sotal	< 0.05	mg/L	0.05	EPA 200.7	TAR	10/01/96
Iron, total	4.3	mg/L	0.03	EPA 200.7	TAR	10/02/96
Lead, total	0.011	mg/L	0.005	EPA 239.2	TAR	10/02/96
Manganese, total	0.06	mg/L	0.01	EPA 200.7	TAR	10/02/96
Zinc, total	0.57	mg/L	0.03	EPA 200.7	TAR	09/30/96

Keystone Laboratorics, Inc.

| Faul G. Belle
| Paul Beebe, Laboratory Manager

10/10/80 10:53 FAA 8184/1/915

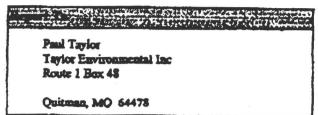
LABORATORIES, INC.

Quality Valge V Service

ANALYTICAL REPORT

October 10, 1996

Page 1 of 1



Work Order; 3609.0047 Sample No: 3600083 Date Collected: 09/27/96 12:00 AM Date Received: 09/30/96 01:25 PM Collector: Paul Taylor Collector Phone: 816-725-4734 Matrix: werer

The state of the s	Mary Services		
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092796-5			

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				A COLLEGE		
Determination of metals.						
Cadmium, total	0.17	mg/L	0.01	EPA 200.7	TAR	10/01/96
Chromium, total	< 0.05	mg/L	0.05	EPA 200.7	TAR	10/01/96
Iron, total	978,	mg/L	0.03	EPA 200.7	TAR	10/02/96
Leed, total	0.009	mg/L	0.005	EPA 239.2	TAR	10/02/96
Manganese, total	37.5	mel	0.01	EPA 200.7	TAR	10/02/96
Zinc, total	360.	mg/L	0.03	EPA 200.7	TAR	09/30/96

Paul Beebe, Laboratory Manager

< = less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm Note: This expert may not be reproduced except in fall, without written approval of the leberatory.

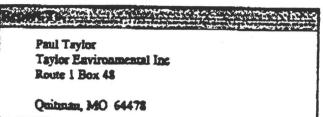
P. 7



ANALYTICAL REPORT

October 10, 1996

Page 1 of 1



Work Order: 3609,0047 Sample No: 3600084 Date Collected: 09/27/96 12:00 AM Date Received: 09/30/96 01:25 PM Collecter: Paul Taylor Collector Phone: \$16-725-4734 Matrix water

Com to proper the form		
092796-6		

V32130-0						
Determination of metals.						
Cadmium, dissolved	0.24	mg/L	0.01	EPA 200.7	TAR	10/01/96
Chromium, dissolved	< 0.05	mg/L	0.05	EPA 200.7	TAR	10/01/96
Iron, dissolved	1,190.	mg/L	0.03	EPA 200,7	TAR	10/02/96
Lead, dissolved	< 0.005	mg/L	0.005	EPA 239.2	TAR	10/02/96
Manganese, dissolved	38.3	DEL	0.01	EPA 200.7	TAR	10/02/96
Zinc, dissolved	334.	mg/L	0.02	EPA 200,7	TAR	09/30/96

Paul Beebe, Laboratory Manager

< = less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm Note: This report may not be reproduced except in full, without writin approval of the laboratory.

TAYLOR ENVIRONMENTAL, INC.

Integrated Environmental Systems

Route 1, Box 48 Quitman, Missouri 64478

10-10-1996 12 10PM

FIELD NOTES

Telephone 816/725-4734

Groundwater Monitoring System
Broski Bros. Surface Impoundment
39th and Belmont
Kansas City, MD 64129

EPA Id. Number MOT300010972

Third Quarter Groundwater Monitoring

September 27, 1996

OWAB-201 A Sample Identification Number 092796-1 Casing Diameter 2" Depth to Water 11.72 Well Depth 22.78 Well Volume 1.80 gallons Purge Volume 5.40 gallons 6.00 (near dry) Volume Purged Initial 14.8 Temperature 6.10 Specific Conductance At One (1) Well Volume 14.1 Temperature 6.38 pH Specific Conductance 920 At Two (2) Well Volumes Temperature 13.9 6.11 Specific Conductance 800 At Three (3) Well Volumes 13.4 Temperature 6.46 Specific Conductance 855 Sample 13.5 Temperature 6.41

Specific Conductance

OWAB-212 A Sample Identification Number Casing Diameter 2" Depth to Water 22.41 Well Depth 29.41 Well Volume 1.10 gallor Purge Volume 3.40 gallor Volume Purged 4.00 (dry)	ns
Initial Temperature pH Specific Conductance	14.6 6.41 1030
At One (1) Well Volume Temperature pH Specific Conductance	14.3 6.52 1090
At Two (2) Well Volumes Temperature pH Specific Conductance	14.8 6.52 1040
At Three (3) Well Volumes Temperature pH Specific Conductance	14.3 6.62 1125
Sample Temperature pH Specific Conductance	15.1 6.55 1020
OWAB-209 A Sample Identification Number	092796-3 092796-4
Casing Diameter 2" Depth to Water 13.84 Well Depth 22.66 Well Volume 1.40 gallor Purge Volume 4.30 gallor Volume Purged 4.00 (dry)	
Initial Temperature pH Specific Conductance	16.0 6.63 730
At One (1) Well Volume Temperature pH Specific Conductance	14.8 6.61 790

OWAB-209 A (cont'd) At Two (2) Well Volumes 15.8 Temperature 6.77 pH Specific Conductance 840 At Threre (3) Well Volumes (dry prior to full volume) 14.7 Temperature 6.73 pH Specific Conductance 765 Sample 14.4 Temperature 6.73 850 Specific Conductance OWAB-210 A Sample Identification Number 092796-5 092796-6 (dissolved) Casing Diameter Depth to Water 14.80 Well Depth 21.94 1.17 gallons Well Volume 11.70 gallons (development of new well) Purge Volume 3.00 Volume Purged Initial 17.7 Temperature 5.54 pH Specific Conductance 3765 At One (1) Well Volume 17.5 Temperature 5.56 4100 Specific Conductance At Two (2) Well Volumes 17.2 Temperature 5.45 pH Specific Conductance 4090 At Three (3) Well Volumes 17.0 Temperature 5.33 pH 4310 Specific Conductance At Four (4) Well Volumes 17.1 Temperature . 4.74 4630

Specific Conductance

OWAB-210 A (Cont'd)

At	Five (5) Well Volume Temperature pH Specific Conductance	17.0 4.41 5140	
At	Six (6) Well Volumes Temperature pH Specific Conductance	17.9 4.30 5520	
At	Seven (7) Well Volumes Temperature pH Specific Conductance	17.8 4.28 5310	
At	Eight (8) Well Volumes Temperature pH Specific Conductance	17.4 4.06 5560	
At	Wine (9) Well Volume Temperature pH Specific Conductance	17.6 4.01 5635	
At	Ten (10) Well Volumes Temperature pH Specific Conductance	18.4 4.17 5320	9/28/96
At	Eleven (11) Well Volumes Temperature pH Specific Conductance	18.0 4.08 5340	
At	Twalve (12) Well Volumes Temperature pH Specific Conductance	18.2 4.02 5390	
At	Thirteen (13) Well Volumes Temperature pH Specific Conductance	18.2 3.95 5580	
At	Fourteen (14) Well Volumes Temperature pH Specific Conductance	21.1 4.04 5440	lunch)

OWAB-210 A (Cont'd) At Fifteen (15) Well Volumes Temperature 20.8 pH 3.88 Specific Conductance 5480 At Sixteen (16) Well Volumes Temperature 20.0 pH 3.90 Specific Conductance 5570 At Seventeen (17) Well Volumes Temperature 20.6 pH 3.80 Specific Conductance 5600 At Eighteen (18) Well Volumes Temperature 20.0 pН 3.74 Specific Conductance At Nineteen (19) Well Volumes Temperature 20.0 pH 3.72 Specific Conductance 5440 At Twenty (20) Well Volumes Temperature 20.0 PH 3.72 Specific Conductance 5675 At Twentyone (21) Well Volumes Temperature 20.0 3.70 Specific Conductance 5675 September 30, 1996 Depth to Water 14.26 Well Depth 22.00 Well Volume 1.26 gallons Purge Volume 3.80 gallons Volume Purged 6.50 Initial Temperature 19.6 4.08 Specific Conductance 4505 At One (1) Well Volume Temperature 19.1 pH 3.68 Specific Conductance 5380

OWAB-210 A (Cont'd)

At Two (2) Well Volumes Temperature pH Specific Conductance	19.0 3.71 5440
At Three (3) Well Volumes Temperature pH Specific Conductance	19.0 3.71 5450
At Four (4) Well Volumes Temperature pH Specific Conductance	19.4 3.63 5550
At Five (5) Well Volume Temperature pH Specific Conductance	19.1 3.60 5640
Samle Temperature pH	20.1
Specific Conductance	5640

Temperature measured in degrees C pH measured in S.U.

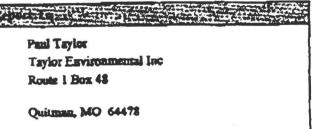
Specific Conductivity in umho/cm

10/22/80 06:20 PAA 6164/1/915



ANALYTICAL REPORT

Page 1 of 1



Werk Order: 3610.0060

Date Received: 10/14/96 02:00 PM

Collector: Paul Taylor

Collector Phone: 816-725-4734

Report Date: 10/21/96

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4		

The second of th		Control Control	A Paracial Laboratoria			
3600250 Braski Well R210A2 : 10/14/96	: water					
Cadmium, total	0.02	mg/L	0.01	EPA 200.7	8	10/15/96
Chromium, total	< 0.05	mg/L	0.05	EPA 200.7	8	10/14/96
Iron, total	1,13	mg/L	0.03	EPA 200.7	8	10/15/96
Lead, total	< 0.01	mg/L	0.005	EPA 239.2	8	10/14/96
Manganese, total	2.95	mg/L	0.01	EPA 200.7	8	10/15/96
Zinc, total	0.08	mg/L	0.03	EPA 200.7	8	10/14/96

Keystone Laboratories, Inc.

Paul Beebe, Laboratory Manager

TAYLOR ENVIRONMENTAL, INC.

Integrated Environmental Systems

Route 1, Box 48
Quitman, Missouri 64478

Telephone 816/725-4734

Fax Transmittal

Fax (816)725-4734

Date: November 11, 1996

From: Paul Taylor

To: George butler Associates

One Pine Ridge Plaza 8207 Melrose Drive Lenexa, Kansas 66214 Fax (913) 894-1878

Attn: Jon Kraft

COMMENTS

Enclosed is the worksheet for the maintenance at the Broski Site.

While working on this project, I also bailed R-210 A1. This work would have been performed on 11/07/96. I found no significant changes in the pH and specific conductance readings. I also was not able to get three full well volumes. On this occasion it appeared that I could only get within "3" feet of the bottom of the well.

Condition Intial 1 well volume 2 well volumes (dry)	Temperature	pH	Specific Conductance
	13.8	5.77	3020
	16.0	5.39	3460
	16.1	4.66	4100

TAYLOR ENVIRONMENTAL, INC.

Integrated Environmental Systems

Route 1, Box 48 Quitman, Missouri 64478

16.

Sample

Temperature

Specific Conductance

Telephone 816/725-4734

FIELD NOTES

Groundwater Monitoring System Broski Bros. Surface Impoundment 39th and Belmont Kansas City, MO 64129

EPA Id. Number MOT300010972

21.8 6.79

3530

Third Quarter Groundwater Monitoring (modified to include new -2A well)

October 14, 1996

9R-201-2A Sample Identification Number Casing Diameter 2" Depth to Water 10.72 Well Depth 17.80 Well Volume 1.16 gallons Purge Volume 3.47 gallons 3.50 (near dry) Volume Purged Initial Temperature 24.0 6.52 Specific Conductance At One (1) Well Volume Temperature 23.1 pH 6.58 Specific Conductance 3490 At Two (2) Well Volumes Temperature 22.2 6.70 Specific Conductance 3560 At Three (3) Well Volumes Temperature 21.8 6.77 Specific Conductance 3520

TAYLOR ENVIRONMENTAL, INC. Integrated Environmental Systems

Route 1, Box 48 Quitman, Missouri 64478

Telephone 816/725-4734

		ROVI	NDW	ATE		IONI ble l	TORI	NG	DAT	A	
	201 A										
	Date	Sulfate	Cd	Cr.	Pb	Ni	Zinc	Mn]	ron	pH Sp	p Con
	06/27/96	177	<.01	<.05	< 005	0.08	0.05	0.35	0.62	6.7	830
	12/20/95	163	< .03	< 05	<.10	0.06	0.05	0 91	4.25	6.6	820
6	06/20/95	153	<.03	0.05	<.10	4.05	0.04	0.42	0.76	6.6	730
	12/07/34	159	0.003	0.011	<.02	0.10	0.062	0.566	2.31	6.3	750
	06/23/94	161	0.006	0.006	0.04	0.05	0.069	0.823	1.52	€.7	320
	12/03/93	142	0.013	<.005	0.07	0.06	0.077	1.38	1.63	7.0	700
	06/09/93	176	0.011	0.005	0.08	0.03	0.044	0.41	1.04	6.7	760
	12/23/92	151	0.012	0.006	<.02	0.04	0.066	0 959	2.76	6.3	375
	06/18/92	197	0.007	0.003	0.07	0.027	0.070	0.429	0.43	6.3	310
	12/06/91	172	<.03	0.01	<.05	0.05	0.13	1.71	4.42	8.9	895
	06/04/91	173	<.01	<.01	<.05	0.02	0.07	0.42	1.22	6.9	720
	03/28/91	178	< .01	0.01	<.05	0.03	0.07	0.04	4.50	7.3	880
	12/06/90	210	<.003	₹.01	<.005		0.085	0.68	0.16	6.52	570
	09/26/90	130	<.005	<.04	0.008	<.07	0.18	0.61	3.2	€.5	700
	07/10/90	209		< .05	0.05			0.44	5.0	7.0	300
	01/28/89			<.01	0.08			0.23	0.24	6.88	
	12/02/88	320		<.01	0.02			1.05	0.03	6.08	300
	10/13/38	316		<.01	<.02			2.02	0.05	6.6	870
	07/14/88	286		<.01	<.02			1.26	4.7	6.6	1000
	03/13/88	253		<.01	0.026			0.67	0.068	6.3	300
	11/19/87	320		0.062	<.01			1.7	0.25	8.7	925
	9/15/67	338		0.013	0.029			2.1	2.7	6.8	300
	05/12/87	406		<.01	0.025			1.4	0.035		900
	03/13/37	218		<.01	< .03			1.7	0.048	6.7	2300
	2/30/86	463		€.01	<.01			2.5	0.03	6.9	875
	08/27/36	195		<.01	<.03			2.5	0.02	6.9	1000
	07/08/86	232		<.01	0.022			1.4	0.028	5.3	950
Į.	3/21/86	181		< .01	<.01			0.82	0.071		350

Historic Monitoring Data

221 2										
201 B	5.16 a h a			21						
Date	Sulfate		r	Pb	Ni	Zinc	Mn	Iron	pH 3	Fr Con
12/20/95	Well dam	_				ike sample				
12/07/94			011		0.04	0.058	5.02	13.4	6.7	800
12/03/93			005	0 06	0.06	0.082	2.27	7.95	7.5	620
12/23/92			012	< 02	<.01	0.076	5.72	24.0	€.9	310
12/06/91			01	<.05	0.05	0.13	5.69	22.9	€.7	325
06/04/91			01	<.05	0.02	0.03	4.28	17.7	8.9	720
03/23/91			Qi	<05	0.05	0.07	4 31	12.8	6.7	305
12/06/30			01		0.023	0.075	4.70	12.0	6.69	
09/28/90			042	0.013	<.07	0.83	5.2	15.0	6 67	
07/10/90	136	₹0	0.05	0.05			4.65	19.2	6 8	780
01/28/89			01	0.05			64.6	57 4	6.3	
04/20/89	166.3	√ <.	01	0.05			4.25	0.11	7 3	817
12/02/88	9.33	′′.	03	0.06			5.45	3.71	6.4	620
10/13/38	37.	¢,	01	< .02			4.95	3.86	6.1	-600
07/14/88	<10.	<0	1.3	<.02			6.9	38.	6.6	848
03/13/88	78.	<	01	0.023			4.50	0.42	7.2	750
11/19/07	69.	Q.	033	<.01			5.4	2.9	6.3	800
09/15/87	54.	Ú.	014	0.02			5.8	5.6	6.8	750
05/12/67	556.	<.	01	<.01			5.4	0.083		300
03/13/87	54.	ζ.	01	< .01			4.4	0.22	6.3	300
12/30/86	105.	₹.	01	<.01			5.4	1.3	7.1	850
08/27/86	26.	<.		6.01			4.8	1.01	6.9	810
07/08/86	79.	€.		<.01			4.5	3.5	6.8	840
03/21/36	99.	<.		(.0)			3.3	0.015		350
201 C										
Date	Sulfate	Cd Cr	r	PE	Ni	Zinc	Mn	Iron	pH S	pi Con
12/20/95	Well Dama					ke sample		1, 0,,	L 111 C1	p con
12/07/94		_		< 02	0.02	0.063	2.63	9.94	6.9	780
12/03/93				0.13	0.05	0.058	1.94	€.10	8.6	830
12/23/92				0.12	0.04	0.038	2.37	7.92	7.4	800
12/06/91		01 (.)		<.05	0.03	0.09	2.51	8.05	7.3	775
06/04/91		01 (.)		€.05	0.01	0.01	2.48	1.34	7.5	650
03/28/91		01 (€ 05	0.02	0.23	1.81	4.06	7.7	790
12/06/30	27.0 €			0.052		0.036	0.37	9.12		520
09/26/90						3.0	3.1	52.0	3.3	600
07/10/90	32.1	<		0.05			1.02	3.8	3.4	650
01/28/89	31 mgs - 17 mg	₹.,		0.14			0.04	0.30	3.2	6.0.0
04/20/89	14.3	\$.0		0.04			0.83	2.63		1025
12/02/88	5.49	<<		0.04			<.01	<.02		740
10/13/38	43.	5.4		< .02			0.43	0.36	7.3	460
07/14/88	10.	₹.,∢		< 02			3.58	15.7	3.4	520
03/13/88	14.	₹.6		0.021			< 01	< 01		1100
11/19/87	12.	₹.,		<.01			0.02	0.03		2925
09/15/27	3.	< 3		0.036			<.01	0.029		275
05/12/37	32.	<		<.01			0.029	0.038		800
								4. 1. 2. 4. 20.		

209 A								
Date	Sulfate	53	Or	Pt	Ni	Zinc	Mn]	Iron pH Sp Con
06/27/96	154	<.01	< .05	0.02	€.025	0.16	0.06	2.64 6.9. 340
12/20/95	Insuff1	cient w	ater fo	r a sa				2.04 0.00 040
06/13/95		< .01	< .05	₹.10	<.05	0.24	0.10	16.8 6.3 890
12/08/94	203	0.011	0.018	<.02	0.03	0.254	0 125	
06/24/94	306	0.008	0.024	0.05	0.11	0.295	0 362	
12/03/93	172	0 012	0 012	0.26	0.05	0.239	0.252	
06/09/93	196	6.007	0.012	0.05	0.03	0.183	0.12	4.40 6.3 300
12/23/92	255	< .005	0.016	0.05	<.01	0.278	0.238	
06/18/92	633	0.007	0.037	0.08	0.049	0.322	0.180	
12/06/91	Insuffi	cient. w	ater fo					7.00 0.7 7200
06/04/92	356	<.01	<.01	0.05	0.02	0.25	0 15	5.18 6.8 1200
03/28/91	404	< 01	< 01	< .05	0.03	0.27	0.10	3.81 6.6 1300
12/06/90	570	0.002	0.016		0 031	0.046	0.39	15.0 6.4 1090
09/26/90	670	<.005	0.045	0.059		2.3	13	46.0 6.4 1220
07/10/90	336		€.05	<.05			0.14	4 3 6.7 1150
01/28/89			<.01	0.09			0.012	
04/20/89	300		<.01	0.07			0.01	0.12 7.65 950
12/02/88	542		<.01	0.06			0.03	< 02 6 36 542
10/13/88	549		<.01	0.03			0.03	0.12 6.4 13000
07/14/83	353		<.01	<.02			0.23	9 9 6.5 1380
03/13/88	294		<.01	0.037			0.027	
11/19/87	283		<.01	0.019			1.01	9 91 6 9 1425
09/15/87	607		0.01	0.030			0.47	0.057 6.7 129
05/12/87	403		< 01	0.042			0.15	0.44 6.3 1300
03/13/87	290		< .01	<.01			0.14	0.023 6 6 1000
12/30/86	315		4.01	0.02			0.25	0.02 6.9 975
08/27/86	152		€.01	<.01			6.53	0.02 6.7 1040
07/08/86	135		<.03	<.01			1.22	0.43 6.3 1020
03/21/86	133		<.01	< 01			1.33	6.17 1100
							,	7,00
207								
Date	Sulfate	6.0	Cr.	Pb	Ni	Zinc	Mn	Iron pH Sp Con
05/27/96	260	< .01	<05	<.005	0.06	0.07	0.61	3.67 6.8 1140
12/20/95	222	<.01	0.05	<.10	0.08	0.10	1 52	13.7 6.6 1010
06/13/95	305	<.01	4.05	0.10	₹.05	0.07	1.13	3.11 6.6 1100
12/07/94	150	0.015	0.033	0.04	0 10	0 223	2.23	29.0 6.9 1100
06/23/94	138	0.008	0.040	0.07	0.09	0:392	1 87	33.2 6.6 1000
12/03/93	192	0.012	0 017	0.12	0.06	0.255	1.70	8.68 6.2 1000
06/09/93	275	0.017	0.020	0 03	0.04	0.253	1.52	9.33 6.8 1000
12/23/92	372	0.015	0.050	0.06	0.05	0.201	1.17	38.8 6.9 1380
06/18/92	339	0.006	0.074	0.03	0.063	0.120	2.30	11.4 6.7 1300
12/06/91	197	€.01	0.05		0.10	0.24	2.58	41.7 6.7 1100
06/04/91	211	<.01	0.03	< .05	0.06	9.17	2 41	28.5 6.7 1000
32/06/90	240	4,001	< .01	0.012		0.07	2.30	0.048 8.5 750
05/26/90	280	€,005	0.31	0.014	0.4	1.3	6.8	290 0 6.3 900

TAYLOR ENVIRONMENTAL, INC.

__Integrated Environmental Systems

Route 1, Box 48 Quitman, Missouri 64478 Telephone 816/725-4734

GROWDYASERFMOWITORING DATA (summary)

210 A									
Date	Sulfate	Cd	Cr	Pb	Ni	Zinc	Mn	Iron	pH Sp Con
06/27/96	3600	0.08	<.05	0.007	1.23	608	39.2	1260	4.1 6150
12/20/95	6796	0.14	0.05	0.21	1.50	575	37.5	1320	3.9 6235
06/12/95	5490	0.15	< . 05	0.42	1.08	547	38.7	1080	3.8 6370
12/08/94	5580	0.147	0.068	0.10	1.27	681.	33.7	1420.	4.4 6500
06/23/94	8710	0.142	0.071	0.14	1.39	800.	36.6	1630.	3.7 6400
12/03/93	8850	0.160	0.083	0.28	1.40	1230.	39.0	2000.	3.8 7200
06/09/93	8000	0.209	0.076	0.32	1.81	1000.	45.2	1640.	3.9 8000
12/23/92	14800	0.247	0.142	0.20	2.22	1650.	44.5	3570.	3.8 12000
06/18/92	10500	0.297	0.319	0.25	2.83	2080	66.1	3250.	3.8 3000
12/06/91		0.40	0.16	0.12	3.29	2.49	71.3	3490.	3.8 11000
06/04/91		0.43	0.26	0.18	5.69	2740	62.2	3880.	4.0 9950
03/28/91	14450	0.44	0.18	0.23	3.45	2444.	64.6	2386.	3.8 12000
12/06/90		0.35	0.051	<.025	3.4	2900.0	92.0	3600.	3.74 9000
09/25/90		0.37	0.14	0.024	4.6	5000.	31.0	6100.	3.1 12000
07/10/90	3885		0.28	0.48			112.	4034.	3.8 11500
01/28/89			0.09	0.23			205.	956.	3.37
04/20/89	8000		0.26	0.41			188.	3250.	3.3 8000
12/02/88			0.26	0.59			232.	4525.	3.9 8400
10/13/88			0.72	1.42			104.	1685.	3.7140000
07/14/88	8624		0.05	<.02			699.	4500.	3.5 12200
03/13/88	8480		0.15	0.117			468.	290.	4.4 14000
11/19/87			0.77	0.55			350.	5200.	2.7 55000
09/15/87			0.23	0.075			716.	7270.	3.6 39500
05/12/87			<.01	0.13			0.88	0.22	4.0 17000
03/13/87			0.19	0.15			82.	2400.	4.4 >5000
12/30/86	4160		0.05	0.05			79.	276.	5.5 3500
08/27/86			0.61	<.01			2270.	4870.	4.0 29100
07/08/86	1940		<.01	0.067			32.	86.	5.8 3090
03/21/86	16400		0.14	0.57			61.	9450.	19000

212										
Date	Sulfate	Cd	Cr	Pb	Ni	Zinc	Mo	Iran	pH S	p Can
06/27/96	179	< .01	<05	< 005	0.04	0.05	16.4	1.94	6.7	1105
12/20/95	245	0.02	0.07	0.11	0 14	0.32	9 42	53.3	6 7	1300
06/13/95	330	0 01	€ 95	0.10	<.05	0.04	6.78	1.0	6.7	1460
12/07/94	130	0.010	0.012	0.03	0.06	0.125	3.30	3.22	6.6	1150
06/23/94	137	0.007	0.010	0.07	0.05	0.210	6.26	1.31	6.5	1300
12/03/93	197	0.012	0.007	0.11	0.07	0.150	9.05	1.61	€. €	1100
06/09/93	371	0.012	0.015	0.08	0.06	0.034	3.10	0.03	6.6	1600
12/23/92	7.4	0.003	0.015	0.08	0.04	0.143	3.22	2.37	6.7	1160
06/18/92	100	0.007	0.033	0.05	0.043	0.089	16.4	2.62	6.7	300
12/06/31	104	<.01	<.01	< .05	0.07	0.06	14.3	3.36	6.7	1000
06/04/91	37.€	<.01	<.01	<.05	0.03	0.07	15 7	6.27	6.7	350
12/06/90	78.0	0.002	0.015	0.01	0.037	0.23	12 0	13.0	€.2	790
09/26/90	90	< .005	0.05	0.005	<.07	0.16	9.0	13.0	6.38	1060

APPENDIX 3

broski bros. inc

6400 E. 35TH STREET / P.O. BOX 31007 / KANSAS CITY, MISSOURI 64129

PHONE 816-861-8000 FAX 816-861-5584

Commercial & Industrial Fence Specialists



11/1/96 Dennis

This is what is recorded.

Note Document & is underlined

AECEIVED NOV 1 3 1996

Coorgo Eutler Assoc., Inc.

RECEIPT# K246745 OCT 31 1996 JACKSON, COUNTY 01:52 PM EARLENE JERNIGAN DIRECTOR OF RECORDS MISCELLAHEOUS _* RECORDED AND FILED DOC # 1996K 50184 8.99 FEE PAGES 2 4.99 T. 00 HOMELESS 043-250-21 3.60 MO HOUSING TR FUND 18.00 TOTAL FEES 29.00 CASH TENDERED 20.00 TOTAL PAID 2.00 CHANGE

REMARKS: BROSKI BROS

RETURN TO: BROSKI BROS SM BROSKI BOX 31907 KANSAS CITY MO 64129

Inits: TW Draw: 63 Batch: 615

Reserved for Recorder of Deeds

) NOTIFICATION TO POTENTIAL
) PURCHASERS
)
)NOTIFICATION, Made on the 23rd day of October
)
)to any potential purchase of the following described
)
)lots, tracts and parcels of land lying, being and
)
)situate in the County of Jackson and the State of
)
)Missouri, to wit:

part of Lots 18 and 19, Block 16 in LEEDS, a Subdivision of land in Kansas City, Jackson County, Missouri: more particularly described on the Plat of Survey by Gary R. Summers dated the 14th day of October 1996 attached.

TAKE NOTICE that:

- 1. The above described real estate has been used to manage hazardous wastes and has been treated to remediate an acidic plume area.
- 2. The use of said real estate is restricted under 40 C.F.R. Subject G. Regulations; and
- 3. Appropriate filings have been made to the Missouri Department of Natural Resources.

IN WITNESS WHEREOF, Broski Brothers, Inc. has caused these presents to be signed by its President and attested by its Secretary, and the corporate seal is to hereto attached, the day and year first above written.

BROSKI BROTHERS, INC.

Somothay

STATE OF MISSOURI COUNTY OF JACKSON

On this 23 day of October, 1996, before me appeared Michael J. Broski, to me personally known, who being by me duly sworn, did say that he is President of Broski Brothers, Inc., a corporation, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation, and said Michael J. Broski acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal at my office in Jackson County, Missouri, the day and year last written above

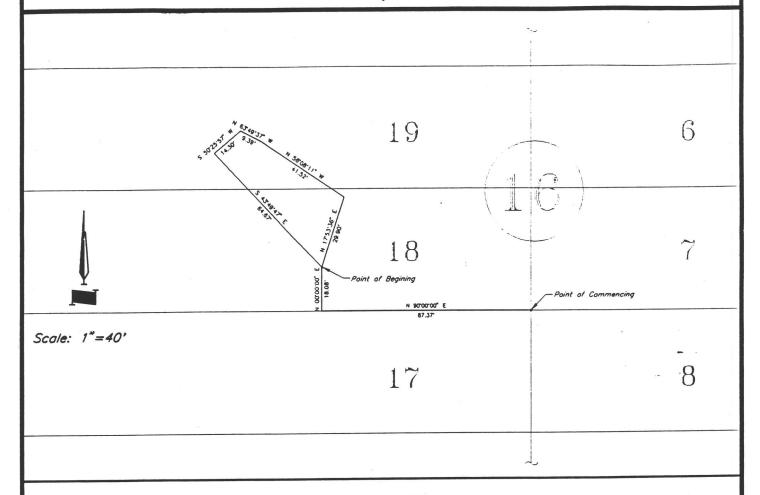
(SEAL)

Notary Public within and for said County and State

R. B. WELTY
Notary Public - State of Missouri
Commissioned in Jackson County
My Commission Expires June 1, 1998

PLAT OF SURVEY Part of LEEDS Subdivision

Kansas City, Missouri



LEGAL DESCRIPTION

Part of Lots 18 and 19, Block 16 in LEEDS a Subdivision of land in Kansas City, Jackson County, Missouri; more particularly described as follows: Commencing at the Southeast corner of said Lot 18; thence North 90°00'00" West along the South line of said Lot 18, a distance of 87.37 feet; thence North 0°00'00" East, a distance of 18.08 feet to the True Point of Beginning; thence North 17'53'36" East, a distance of 29.90 feet: thence North 56'08'11" West, a distance of 41.52 feet; thence North 63'49'37" West, a distance of 9.39 feet; thence South 50'25'57" West, a distance of 14.30 feet; thence South 43'49'47" East, a distance of 64.67 feet to the Point of Beginning.

I hereby certify this 14 day of October 1996 a survey was made on the ground of the premises herein described and that the results of that survey are shown hereon.



GARY R. SUMMERS
MISSOURI REGISTERED LAND SURVEYOR #2554
JOB #7304.01 PREPARED FOR STAN BROSKI

Reserved for Recorder of Deeds

NOTIFICATION TO POTENTIAL **PURCHASERS**

ISTATE OF MISSOURINGS ICOUNTY OF CACASONAS I CERTIFY MISSOURING PROFESSION

1939 JAN 13 A 15 44 0

RECORDER 1.880P2223 KEITH T. BROWN DIRECTOR OF RECORDS

NOTIFICATION, Made on the 14th day of December, 1988 to any potential purchaser of the following described lots, tracts and parcels of land lying, being and situate in the County of Jackson and

(Churce) State of Missouri, to wit:

Lots 4, 5, 6, 7, 8, 9, 10, 15, 16, 17, 18, 19, 20, 21,/LEEDS, a subdivision in Kansas City, Jackson County, Missouri.

K05-3674

TAKE NOTICE that:

- The above-described real estate has been used to manage hazardous wastes; and
- The use of said real estate is restricted under 40 C.F.R. Subpart G. Regulations; and
- 3. A copy of the survey plat and record of the type, location, and quantity of hazardous wastes disposed of within each cell or other hazardous waste disposal unit of the facility required by 40 C.F.R. Sections 265.116 and 265.119(a) have been filed with the City Plan Commission of Kansas City, Missouri, the Environmental Protection Agency Region VII Administrator and the Missouri Department of Natural Resources Waste Management Program RCRA Permits Unit Chief.

IN WITNESS WHEREOF, Broski Brothers, Inc. has caused these presents to be signed by its President and attested by its Secretary, and the corporate seal to be hereto attached, the day and year first above written.

BROSKI BROTHERS, INC.

Don R. Tobin, President

STATE OF MISSOURI

COUNTY OF JACKSON

On this // day of December, 1988, before me, appeared Don R. Tobin, to me personally known, who being by me duly sworn, did say that he is the President of Broski Brothers. Inc., a corporation, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation, and said Don R. Tobin acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal at my office in Jackson County, Missouri, the day and year last above written.

[SEAL]

Notary Public within and for said County and State.

My Commission Expires; PARKS & COCKEL MOTARY PURITY STATE OF MISSCHRE ATTEND NOTES

.. 1005

Reserved for Recorder of Deeds

CHIEF P. James H. et Chief.

FORM NO RED CLASS E & 1991

K1156215

CORPORATION

of Release Deed

1274 AUG 21, P 3: 10.0 This Deed of Release Witnesseth, That BOATMEN'S FIRST NATIONA BANK OF KANSAS CITY, TRUSTEE OF THAT TRUST ESTABLISHED PURSUANT TO THE LAST WILL AND TESTAMENT OF LEO J. BROS owner and holder of the note evidencing the debt secured by deed of trust executed by BROSKI BROTHERS, INC., by Stanle M. Broski, Jr. & Betty C. Broski & by ALL-BRITE GALVANI COMPANY, by Don R. Tobin, Sharon Louise Tobin & Michael conveying real property legally described as follows: The vacated North 10 feet of 38th Street lying South o and adjoining Lots 10 through 13, both inclusive, Bloc 15, LEED'S ADDITION, and the vacated South 10 feet of 38th Street and Lots 1 through 12 and Lots 13 through 24, inclusive, Block 16, LEED'S ADDITION, a subdivision in Kansas City, Jackson County, Missouri. The Identified note. Described to bookk/CIS page 768 was cra-Subject to all easements, restrictions and reservation sented of record, if any. ATTEST: DIRECTOR DE RECORDS 1981, and recorded dated May May 20 19 81, in the office of the Recorder of Deeds for Jackson Missouri, at Kansas City , in Book K1078 at page 268, in consideration of the full payment of said debt, does hereby acknowledge satisfaction of said deed of trust and release the property therein described from the lien and effect of the same. Boatmen's First National Bank of Kansas City, Trustee Under IN WITNESS WHEREOF, the said_ast Will and Testament of Leo J. Broski has caused these presents to be signed by itsVice. President..... and the corporate seal to be hereto affixed. day of august Dated this , 1994 BOATMEN'S FIRST NATIONAL BANK OF KAN CITY. TRUSTEE OF THAT TRUST ESTABLISHED (Seal) PURSUANT TO THE LAST WILL AND TESTAMENT OF ATTEST: 21/219 JANET M. KEEFER, Vice/President BRAD KOLINS, Assistant Secretary In the State of Messessis County of States on this day of day of State, appeared to me personally known, who being by me duly sworn, did say that he was the county and states appeared to me personally known, of the duly sworn, did say that he was the county and the sword of the county and the same and t , a corporation, that the seal affixed to said instrument is the Extrusis Frist National Benkof Kd. corporate seal of said corporation and that said instrument was executed on behalf of said corporation by authority of its Board of Directors, and said (32,12.17). Heafth acknowledged said instrument to be the free act and deed of said corporation, and that said corporation has no corporate seal.* Witness my hand and Notarial Seal subscribed and affixed in said County and State the day and year in this certificate above written. Backers Q. Baccles

Notary Public BARBARA J. BOWLES (Seal). Notary Public - State of Missouri Commissioned in Jackson County My term expires (Leg. 10 1996 STATE OF .. IN THE RECORDER'S OFFICE COUNTY OF . Recorder of said County, do hereby certify that the within A.D., 19....., duly filed for record in my office, and is recorded in the records of this office, in Book...... at page...... at IN WITNESS WHEREOF. I have hereunto set my hand and affixed my official seal at

APPENDIX 4

Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer: Date\Time:

J. Kraft

Frame No:

8/06/96

Direction:

Southeast

Comments:

Typical







Photographer: J. Kraft Date/Time:

Frame No:

8/06/96

Direction:

West

Comments:

Commencing

excavation of test pit, foreground; closure of monitoring wells 210 A, B,

and C, background.

Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer: Date\Time:

J. Kraft

Frame No:

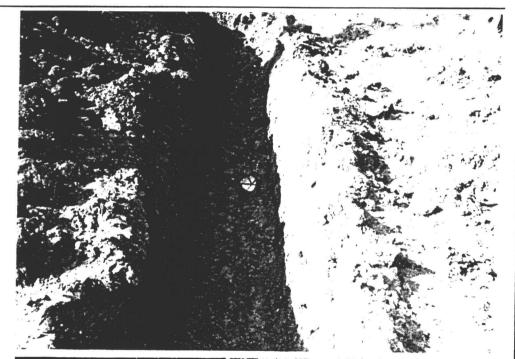
8/06/96

Direction:

South

Comments:

Exploration test pit.



Photographer:

J. Kraft

Date/Time: Frame No:

8/06/96

Direction:

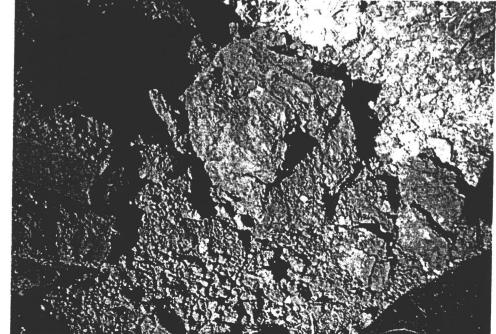
West

Comments:

Reddish-

brown stained soil from

Horizon No. 2.



Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer: Date\Time:

J. Kraft

Frame No:

8/06/96

Direction:

North

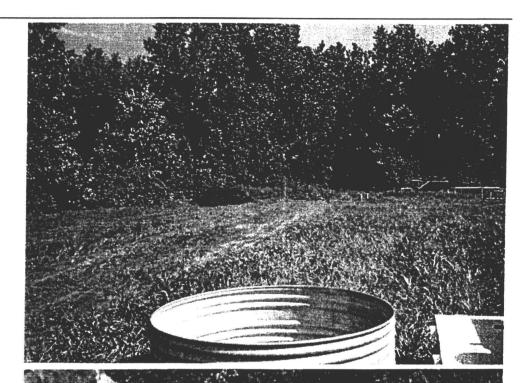
Comments:

Topsoil

stockpile, center;

beginning uncontaminated soil from Horizon No. 1,

left of center.





Photographer:

J. Kraft

Date/Time:

8/06/96

Frame No: Direction:

North

Comments:

Contaminated soil with white staining from Horizon No. 3.

Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer: Date\Time:

J. Kraft 8/06/96

Frame No: Direction:

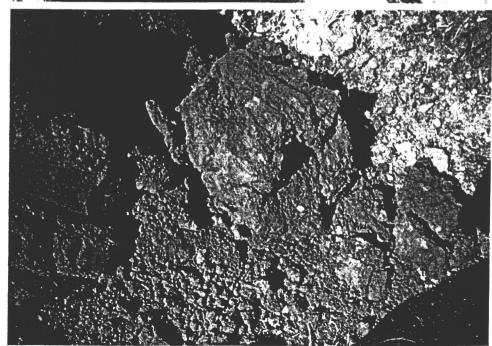
3 South

Comments:

Exploration test pit.



Photographer: J. Kraft
Date/Time: 8/06/96
Frame No: 4
Direction: West
Comments: Reddishbrown stained soil from
Horizon No. 2.



Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer: Date\Time:

J. Kraft

Frame No:

8/06/96

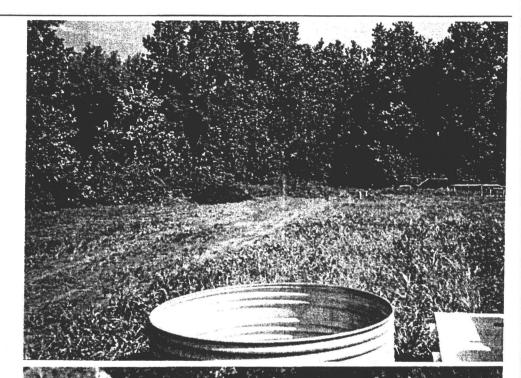
Direction:

North Topsoil

Comments: stockpile, center;

beginning uncontaminated soil from Horizon No. 1,

left of center.





Photographer:

J. Kraft

Date/Time: Frame No:

8/06/96

Direction:

North

Comments:

Contaminated soil with white staining from Horizon No. 3.

Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer:
Date\Time:

J. Kraft 8/07/96

Frame No:

7

Direction:

North Pad for

north treatment area, center; stockpile of uncontaminated soil from Horizon No. 1, center, left; topsoil stockpile,

background.



Photographer: J. Kraft
Date/Time: 8/07/96
Frame No: 8
Direction: West

Comments:

Excavation of contaminated soil from plume area.



Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer: Date\Time:

J. Kraft 8/07/96

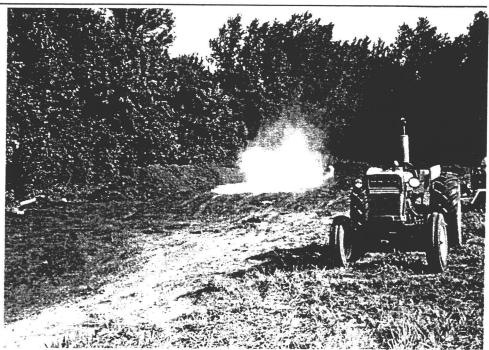
Frame No:

9

Direction:

North Spreading

Comments: Spreading hydrated lime upon contaminated soil spread in 6-8" lifts upon pad of north treatment area.



Photographer: J. Kraft
Date/Time: 8/07/96
Frame No: 10
Direction: North
Comments: Blending
contaminated soil and
hydrated lime with
rototiller in north
treatment area.



Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer:

J. Kraft 8/07/96

Date\Time: Frame No:

11

Direction:

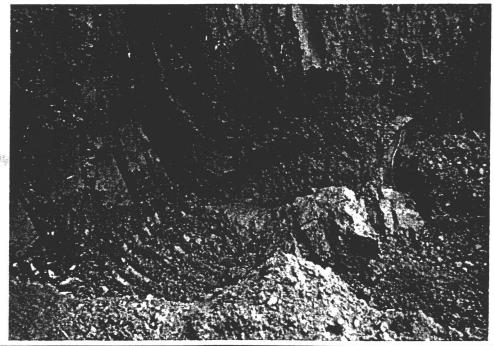
Southwest

Comments: South

treatment area.



Photographer: J. Kraft Date/Time: 8/07/96 Frame No: 12 Direction: North Comments: Highly contaminated zone on north wall of excavation.



Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer: Date\Time:

J. Kraft 8/07/96

Frame No:

13

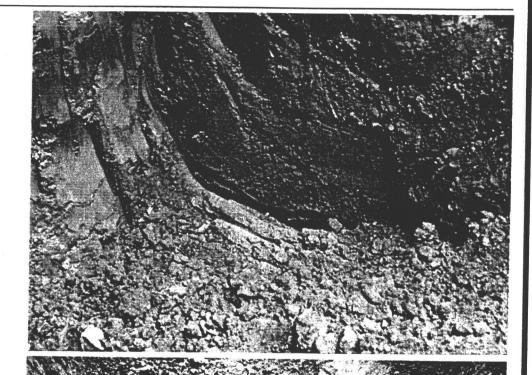
Direction:

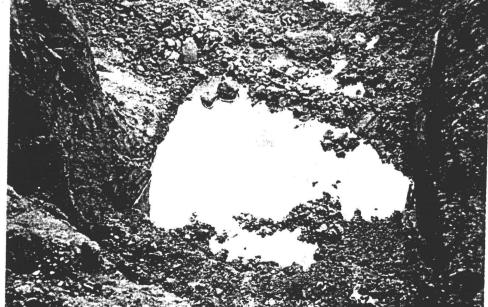
Northeast

Comments:

Highly contaminated zone on

east wall of excavation.





Photographer:

J. Kraft Date/Time:

Frame No:

8/09/96 14

Direction:

East

Comments:

Infiltrated groundwater in bottom of excavation.

Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer:

J. Kraft 8/09/96

Date\Time: Frame No:

Direction:

Southwest

Comments:

End of

day. Plastic sheets placed upon south treatment area and safety fencing

placed around excavation.



Photographer: Date/Time: 8/13/96 Frame No: Direction: Southwest Comments: Agricultural lime spread on sides and bottom of excavation. Note small amount of water in

excavation.

J. Kraft



Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer:

J. Kraft

Date\Time: Frame No:

8/13/96

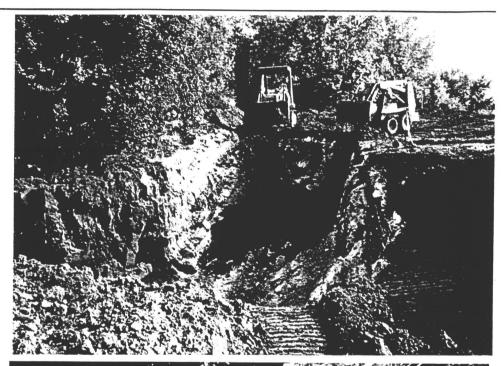
Direction:

17 North

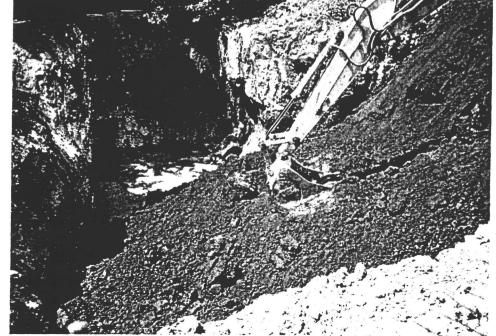
Direction: Comments:

Returning

treated soil to excavation.



Photographer: J. Kraft
Date/Time: 8/13/96
Frame No: 18
Direction: West
Comments: Returning
treated soil to excavation.



Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer:

J. Kraft

Date\Time:

8/14/96

Frame No:

19

Direction:

West

Comments:

Backfilling nearly

complete.





Photographer:

J. Kraft

Date/Time: Frame No:

8/15/96

Direction:

20 West

Comments:

Backfilling complete.

Finish grading.

Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer:

J. Kraft

Date\Time: Frame No:

8/15/96

Frame No:

21

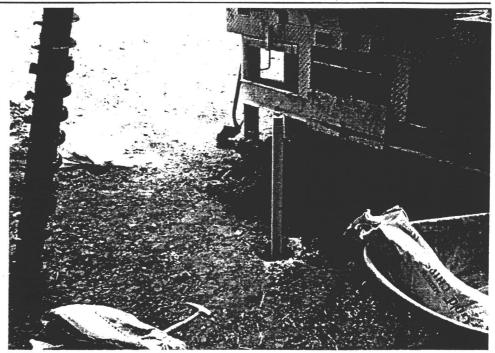
Direction:

Southeast

Comments:

Installation of Monitoring

Well R 210 A1.



Photographer: J. Kraft
Date/Time: 8/29/96
Frame No: 22
Direction: North
Comments:

Comments: Remediation area seeded and mulched.



Client:

Broski Brothers, Inc.

GBA Job No.: 7304.01

Camera Make:

Olympus Infinity Twin

Site Name:

Broski Brothers Plume Remediation

Site Location:

Kansas City, Missouri

Photographer: Date\Time:

J. Kraft

Frame No:

10/02/96

Direction:

23 West

Comments:

Vegetation

on treated plume area.



Photographer:

J. Kraft 10/02/96

Date/Time: Frame No:

Direction:

Southeast

Comments:

Installation of Monitoring

Well R 210 A2.

